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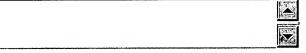
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<u>L22</u>	(fusion protein and oligomerization domain)	212421	<u>L22</u>
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<u>L20</u>	L19 and (axes)	1	<u>L20</u>
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<u>L16</u>	L15 and 114	0	<u>L16</u>
<u>L15</u>	colovos.in.	4	<u>L15</u>
<u>L14</u>	yoshida.in.	11698	<u>L14</u>
<u>L13</u>	padilla.in.	176	<u>L13</u>

<u>L12</u>	yeastes.in.	0	<u>L12</u>
<u>L11</u>	L1 and (homodimeric or homotetrameric)	0	<u>L11</u>
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<u>L9</u>	L1 and (non-intersecting axes)	0	<u>L9</u>
<u>L8</u>	L1 and (linker)	1	<u>L8</u>
<u>L7</u>	L1 and (influenza virus)	1	<u>L7</u>
<u>L6</u>	L1 and (oligomerization domain)	1	<u>L6</u>
<u>L5</u> .	L1 and (tetrameric or dimeric structure)	1	<u>L5</u>
<u>L4</u>	6242570.pn.	1	<u>L4</u>
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<u>L2</u>	5573925.pn.	1	<u>L2</u>
L1	5008373.pn.	1	<u>L1</u>

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              AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
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=> s fusion protein and (homodimeric or homotetrameric)
6 FILES SEARCHED...

L1 4505 FUSION PROTEIN AND (HOMODIMERIC OR HOMOTETRAMERIC)

=>

=> s l1 and (geometry)

L2 171 L1 AND (GEOMETRY)

=> s 12 and (covalent bond)

L3 17 L2 AND (COVALENT BOND)

=> s 13 and (oligomerization domains)

4 L3 AND (OLIGOMERIZATION DOMAINS)

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L4 ANSWER 1 OF 4 USPATFULL on STN

Self assembling proteins for producing extended materials

Self-assembling fusion proteins and nucleic acids encoding the same are provided. The subject fusion proteins include a first dimer forming oligomerization domain and a second tetramer forming oligomerization domain rigidly linked to each other. Also provided are regular structures made up of a plurality of self-assembled fusion proteins of the subject invention, and methods for producing the same. The subject fusion proteins find use in the preparation of self-assembled nanostructures, e.g., two-dimensional layers and three-dimensional networks, which structures find use in a variety of different applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2007:249911 USPATFULL ACCESSION NUMBER:

Self assembling proteins for producing extended TITLE:

materials

Yeates, Todd O., Agoura Hills, CA, UNITED STATES INVENTOR(S):

Padilla, Jennifer, Pasadena, CA, UNITED STATES Yoshida, Stephanie, Seattle, WA, UNITED STATES Colovos, Chris, Thousand Oaks, CA, UNITED STATES

NUMBER KIND DATE ______

US 2007218547 A1 20070920 US 2004-815543 A1 20040331 PATENT INFORMATION:

20040331 (10) APPLICATION INFO.:

Continuation-in-part of Ser. No. US 2000-564710, filed RELATED APPLN. INFO.:

on 3 May 2000, GRANTED, Pat. No. US 6756039

DATE NUMBER ______

US 1999-133470P 19990510 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility

APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: BOZICEVIC, FIELD & FRANCIS LLP, 1900 UNIVERSITY AVENUE,

SUITE 200, EAST PALO ALTO, CA, 94303, US

NUMBER OF CLAIMS: 26 EXEMPLARY CLAIM:

1 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 611

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4ANSWER 2 OF 4 USPATFULL on STN

TI Adzymes and uses thereof

Disclosed is a family of novel protein constructs, useful as drugs and AB for other purposes, termed "adzymes," comprising an address moiety and a catalytic domain. In some types of disclosed adzymes, the address binds with a binding site on or in functional proximity to a targeted biomolecule, e.g., an extracellular targeted biomolecule, and is disposed adjacent the catalytic domain so that its affinity serves to confer a new specificity to the catalytic domain by increasing the effective local concentration of the target in the vicinity of the catalytic domain. The present invention also provides pharmaceutical compositions comprising these adzymes, methods of making adzymes, DNA's encoding adzymes or parts thereof, and methods of using adzymes, such as for treating human subjects suffering from a disease, such as a disease associated with a soluble or membrane bound molecule, e.g., an allergic or inflammatory disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2005:87403 USPATFULL ACCESSION NUMBER: Adzymes and uses thereof TITLE:

INVENTOR(S): Afeyan, Noubar B., Lexington, MA, UNITED STATES

Lee, Frank D., Chestnut Hill, MA, UNITED STATES Wong, Gordon G., Brookline, MA, UNITED STATES Das Gupta, Ruchira, Auburndale, MA, UNITED STATES

Baynes, Brian, Somerville, MA, UNITED STATES COMPOUND THERAPEUTICS, INC., Waltham, MA (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE

______ PATENT INFORMATION: US 2005074865 A1 20050407 APPLICATION INFO.: US 2004-792498 A1 20040302 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2003-650592, filed

on 27 Aug 2003, PENDING

NUMBER ______

PRIORITY INFORMATION:

US 2002-406517P 20020827 (60) US 2002-423754P 20021105 (60) US 2002-430001P 20021127 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

LEGAL REPRESENTATIVE: FISH & NEAVE IP GROUP, ROPES & GRAY LLP, ONE

INTERNATIONAL PLACE, BOSTON, MA, 02110-2624

45 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 25 Drawing Page(s)

LINE COUNT: 9195

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4ANSWER 3 OF 4 USPATFULL on STN

ΤI Adzymes and uses thereof

Disclosed is a family of novel protein constructs, useful as drugs and AB for other purposes, termed "adzymes," comprising an address moiety and a catalytic domain. In some types of disclosed adzymes, the address binds with a binding site on or in functional proximity to a targeted biomolecule, e.g., an extracellular targeted biomolecule, and is disposed adjacent the catalytic domain so that its affinity serves to confer a new specificity to the catalytic domain by increasing the effective local concentration of the target in the vicinity of the catalytic domain. The present invention also provides pharmaceutical compositions comprising these adzymes, methods of making adzymes, DNA's encoding adzymes or parts thereof, and methods of using adzymes, such as for treating human subjects suffering from a disease, such as a disease associated with a soluble or membrane bound molecule, e.g., an allergic or inflammatory disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:107249 USPATFULL Adzymes and uses thereof TITLE:

Afeyan, Noubar B., Lexington, MA, UNITED STATES INVENTOR(S):

Lee, Frank D., Chestnut Hill, MA, UNITED STATES Wong, Gordon G., Brookline, MA, UNITED STATES Das Gupta, Ruchira, Auburndale, MA, UNITED STATES

Baynes, Brian, Somerville, MA, UNITED STATES

NUMBER KIND DATE _____ US 2004081648 A1 US 2003-650592 A1 PATENT INFORMATION: 20040429 APPLICATION INFO.: 20030827 (10)

NUMBER DATE ______

US 2002-406517P PRIORITY INFORMATION: 20020827 (60) US 2002-423754P 20021105 (60)

US 2002-430001P 20021127 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA,

02110-2624

NUMBER OF CLAIMS: 156 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 19 Drawing Page(s)

LINE COUNT: 8325

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 4 USPATFULL on STN

Adzymes and uses thereof TI

Disclosed is a family of novel protein constructs, useful as drugs and AB

for other purposes, termed "adzymes," comprising an address moiety and a catalytic domain. In some types of disclosed adzymes, the address binds with a binding site on or in functional proximity to a targeted biomolecule, e.g., an extracellular targeted biomolecule, and is disposed adjacent the catalytic domain so that its affinity serves to confer a new specificity to the catalytic domain by increasing the effective local concentration of the target in the vicinity of the catalytic domain. The present invention also provides pharmaceutical compositions comprising these adzymes, methods of making adzymes, DNA's encoding adzymes or parts thereof, and methods of using adzymes, such as for treating human subjects suffering from a disease, such as a disease associated with a soluble or membrane bound molecule, e.g., an allergic or inflammatory disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2004:107248 USPATFULL ACCESSION NUMBER: Adzymes and uses thereof TITLE:

Afeyan, Noubar B., Lexington, MA, UNITED STATES INVENTOR(S):

Lee, Frank D., Chestnut Hill, MA, UNITED STATES Wong, Gordon G., Brookline, MA, UNITED STATES DasGupta, Ruchira, Auburndale, MA, UNITED STATES Baynes, Brian, Somerville, MA, UNITED STATES

NUMBER KIND DATE -----US 2004081647 PATENT INFORMATION: A1 20040429 US 2003-650591 A1 APPLICATION INFO.: 20030827 (10)

> NUMBER DATE _____

PRIORITY INFORMATION: US 2002-406517P 20020827 (60)

US 2002-423754P 20021105 (60) US 2002-430001P 20021127 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

ROPES & GRAY LLP, ONE INTERNATIONAL PLACE, BOSTON, MA, LEGAL REPRESENTATIVE:

02110-2624

NUMBER OF CLAIMS: 41 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 19 Drawing Page(s)

LINE COUNT: 7919

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> e yeates/au 7 E1 YEATERMEYER JESSICA/AU 1 E2 YEATERWILLIAMS M/AU E3 119 --> YEATES/AU E4 51 YEATES A/AU YEATES A E/AU E5 45 10 YEATES A J/AU E6 5 E7 YEATES A N/AU 4 3 YEATES A P/AU E8 E9 YEATES A R/AU E10 85 YEATES A T/AU 12 YEATES A TODD/AU E11 22 E12 YEATES ALAN T/AU => s ell 12 "YEATES A TODD"/AU

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L5

ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

Nonlinear Optical Transmission and Multiphoton Processes in Organics IV. TI (Proceedings held 14-15 August 2006 in San Diego, California.) [In: Proc.

SPIE-Int. Society Opt. English; 2006, 6330]

Unavailable AB

ACCESSION NUMBER: 2007:5660 HCAPLUS

DOCUMENT NUMBER: 146:71450

Nonlinear Optical Transmission and Multiphoton TITLE:

> Processes in Organics IV. (Proceedings held 14-15 August 2006 in San Diego, California.) [In: Proc.

SPIE-Int. Society Opt. English; 2006, 6330] Yeates, A. Todd; Belfield, Kevin D.; Kajzar,

Francois; Editors

CORPORATE SOURCE: USA

(2006) Publisher: (SPIE-The International Society for SOURCE:

Optical Engineering: Bellingham, Wash.), No pp. given.

ISBN: 0-8194-6409-0

DOCUMENT TYPE:

AUTHOR (S):

Book

LANGUAGE: English

L5 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

Nonlinear Optical Transmission and Multiphoton Processes in Organics III. TT (Proceedings held in San Diego, CA 2 August 2005.) [In: Proc. SPIE-Int.

Society Opt. English, 2005; 5934]

Unavailable

ACCESSION NUMBER:

2005:1282015 HCAPLUS

DOCUMENT NUMBER:

144:42874

TITLE:

Nonlinear Optical Transmission and Multiphoton Processes in Organics III. (Proceedings held in San Diego, CA 2 August 2005.) [In: Proc. SPIE-Int. Society

Opt. English, 2005; 5934] Yeates, A. Todd; Editor

AUTHOR (S):

USA

CORPORATE SOURCE: SOURCE:

(2005) Publisher: (SPIE-The International Society for Optical Engineering: Bellingham, Wash.), No pp. given.

ISBN: 0-8194-5939-9

DOCUMENT TYPE:

Book LANGUAGE: English

ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Nonlinear optical ionic liquids

A review. MO calcns. indicate that mols. with a high electron d. diffused AB over a large volume will have third order nonlinear optical activity. Anions often have higher second hyperpolarizability values (gamma) than similar neutral mols. Also, mols. or ions containing higher row elements have higher gammas. Salts with cations that have their pos. charge only weakly interacting with the anion also enhance the third order nonlinear optical activity. That looks like the recipe for ionic liqs. A number of sulfur-containing mono- and dianion salts were synthesized and characterized through Z-scan measurements. Most were ionic liqs., and some showed significant third order nonlinear optical behavior. The general features of ionic liqs. such as wide liquidus range, good thermal stability, and low vapor pressure are particularly advantageous for applications of nonlinear optical materials. Potential applications are in optical

limiting and other all optical devices.

ACCESSION NUMBER: 2005:683430 HCAPLUS

DOCUMENT NUMBER: 143:305727

TITLE: Nonlinear optical ionic liquids

Del Sesto, Rico E.; Dudis, Doug S.; Ghebremichael, AUTHOR (S):

Fassil; Heimer, Norman E.; Low, Tammy K. C.; Wilkes,

John S.; Yeates, A. Todd

CORPORATE SOURCE: Department of Chemistry, U.S. Air Force Academy,

Colorado Springs, CO, 80840, USA

SOURCE: ACS Symposium Series (2005), 902 (Ionic Liquids IIIB:

Fundamentals, Progress, Challenges, and

Opportunities), 144-158

CODEN: ACSMC8; ISSN: 0097-6156

American Chemical Society PUBLISHER: Journal; General Review DOCUMENT TYPE:

LANGUAGE:

English

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS 20 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN L5

Proceedings of SPIE Conference on Nonlinear Optical Transmission and ΤI Multiphoton Processes in Organics held 3-4 August 2003 in San Diego, California. [In: Proc. SPIE-Int. Society Opt. English, 2003; 5211]

AB Unavailable

2004:229410 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 141:215300

Proceedings of SPIE Conference on Nonlinear Optical TITLE:

Transmission and Multiphoton Processes in Organics held 3-4 August 2003 in San Diego, California. [In: Proc. SPIE-Int. Society Opt. English, 2003; 5211]

Yeates, A. Todd; Belfield, Kevin D.; Kajzar, AUTHOR(S):

Francois; Lawson, Christopher M.; Editors

USA CORPORATE SOURCE:

(2003) Publisher: (SPIE-The International Society for SOURCE:

Optical Engineering: Bellingham, Wash.), 148 pp.

ISBN: 0-8194-5084-7

DOCUMENT TYPE:

Book English

LANGUAGE:

ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN L5

Nonlinear optical ionic liquids TI

MO calcns. indicate that mols. with a high electron d. diffused over a AΒ large volume will have third order nonlinear optical activity. Anions often have higher second hyperpolarizability values (gamma) than similar neutral mols. Also, mols. or ions containing higher row elements have higher gammas. Salts with cations that have their pos. charge only weakly interacting with the anion also enhance the third order nonlinear optical activity. That looks like the recipe for ionic liqs. A number of sulfur-containing monoand dianion salts were synthesized and characterized through Z-scan measurements. Most were ionic ligs., and some showed significant third order nonlinear optical behavior. The general features of ionic ligs. such as wide liquidus range, good thermal stability, and low vapor pressure are particularly advantageous for applications of nonlinear optical materials. Potential applications are in optical limiting and other all-optical devices.

ACCESSION NUMBER:

2003:632567 HCAPLUS

TITLE:

Nonlinear optical ionic liquids

AUTHOR (S):

Wilkes, John S.; Del Sesto, Rico E.; Ghebremichael,

Fassil; Heimer, Norman E.; Dudis, Douglas S.;

Yeates, A. Todd

CORPORATE SOURCE:

Department of Chemistry, US Air Force Academy, USAF

Academy, CO, 80840-6230, USA

SOURCE:

Abstracts of Papers, 226th ACS National Meeting, New York, NY, United States, September 7-11, 2003 (2003), IEC-088. American Chemical Society: Washington, D. C.

CODEN: 69EKY9

DOCUMENT TYPE:

Conference; Meeting Abstract

English LANGUAGE:

ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN L5

Parallel computational chemical calculations for Air Force material TI projects

AB We will report results on two chemical systems of interest to the Air Force: C122 complexes and Pt-containing oligomers. The former are excellent electron acceptors, while the latter have interesting non-linear optical

properties. It is known that C122 complexes, which are two buckminsterfullerene (C60) balls connected by an acetylene bridge, are good electron acceptors: the AM1 electron affinity is of the order of 8 eV. In order to characterize these mols. more fully, we have performed calcns., at the generalized gradient approximation level of DFT, studying the bridging found in these compds. These can be characterized as vertex, 5-6 edge, or 6-6 edge bridging. We have characterized the HOMO and LUMO orbitals for the various neutral confromations, as well as for anionic species. Trans-bis(acetylene phenyl)bis(tri Bu phosphine)Pt has been synthesized in our labs. Several derivative oligomers have also been synthesized and their visible spectrum has been caharacterized. We have performed ab initio DFT calcns. to try to provide insight on the ground state and the low lying excited states in order to provide insight onto the non-linear optical properties of these mols.

ACCESSION NUMBER: 2003:631201 HCAPLUS

TITLE: Parallel computational chemical calculations for Air

Force material projects

AUTHOR(S): Blaudeau, Jean-Philippe; Dudis, Douglas S.;

Yeates, A. Todd; Cooper, Thomas M.

CORPORATE SOURCE: ASC/HP, High Performance Computing Inc,

Wright-Patterson Air Force Base, OH, 43235, USA

SOURCE: Abstracts of Papers, 226th ACS National Meeting, New York, NY, United States, September 7-11, 2003 (2003),

COMP-041. American Chemical Society: Washington, D.

C.

CODEN: 69EKY9

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

L5 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Cisoid defects in all-trans polyenes and polyacetylene

Polyacetylene is the paradigm of conjugated materials and is of key AΒ importance for its electronic, optical, and nonlinear optical properties. Obtaining samples of defect-free polyacetylene is hampered by the ready formation of various types of defects in the polymer backbone. formation of cisoid defects within an all-trans polyene, and in the long limit, all trans-polyacetylene, has been studied by means of Hartree-Fock and correlated (second order perturbation theory) ab initio calcus. In the present contribution we report the results obtained for a series of all trans-polyenes of general formula CnHn+2, n=4, 8, 12, -, 28. Each mol. in this series possesses a central carbon-carbon single bound about which rotation is feasible. The rotation barrier for each member of this series has been determined, as well as the optimized trans-cisoid metastable structure, vibrational properties and structural changes as a function of chain length. Extrapolation of these properties as they evolve into the infinite limit yields the description of the trans-cisoid defect in t-PA. Surprisingly, the extended conjugation results in a rather low rotation barrier, which can be understood from increasing ease of electron manipulation (polarization). SCF calcns. predict a non-planar defect, whereas inclusion of correlation yields a planar defect.

ACCESSION NUMBER: 2003:182040 HCAPLUS

TITLE: Cisoid defects in all-trans polyenes and polyacetylene

AUTHOR(S): Dudis, Doug S.; Ryan, James J.; Yeates, A.

Todd

CORPORATE SOURCE: Polymer Group, Air Force Research Laboratory,

Wright-Patterson AFB, OH, 45433, USA

SOURCE: Abstracts of Papers, 225th ACS National Meeting, New

Orleans, LA, United States, March 23-27, 2003 (2003), COMP-354. American Chemical Society: Washington, D.

CODEN: 69DSA4

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

L5 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Raman responses of cis- and trans-polyenes

Recent reports of exceptionally large Raman responses in low-defect trans-polyacetylene (Kobryanskii polyacetylene) have prompted speculations regarding the origin of such large signals. We have applied correlated (post-Hartree Fock) calcns. on an extensive series polyenes to investigate the origin of these responses. Two important conclusions are (1) all trans-polyenes, in the absence of defects, have tremendous Raman responses which are orders of magnitude larger than some standard, highly Raman-active materials, and (2) no special mechanisms need be invoked to explain such responses. Conventional mechanisms are adequate to account for the large responses.

ACCESSION NUMBER:

2003:182039 HCAPLUS

TITLE:

Raman responses of cis- and trans-polyenes

AUTHOR(S):

Yeates, A. Todd; Dudis, Doug S.

CORPORATE SOURCE:

Materials & Manufacturing Directorate, Air Force Research Laboratory, Wright-Patterson AFB, OH,

45433-7750, USA

SOURCE:

Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), COMP-353. American Chemical Society: Washington, D.

C.

CODEN: 69DSA4

DOCUMENT TYPE:

Conference; Meeting Abstract

LANGUAGE: English

L5 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Electron affinities and Jahn-Teller distortions in C60 anions

AB Buckminsterfullere, C60, is well known to be highly electron-accepting, undergoing up to six (6) successive one-electron redns. under certain conditions. The high electron affinity of C60 is important for mol.-electronic technologies, such as photovoltaics, while the geometric distortions of the various anions are crucial to understanding electron-phonon coupling in various superconductive fullerides. Surprisingly, full ab initio gradient-optimized structures have not been reported for many if not most of the various anions to the best of our knowledge. Herein we report full SCF (Hartree-Fock) as well as hybrid d. functional (B3LYP) calcns. in an effort to map the structure-charge-multiplicity landscape at theories that treat electron-electron interactions consistently from one state to another.

ACCESSION NUMBER:

2003:181711 HCAPLUS

TITLE:

Electron affinities and Jahn-Teller distortions in C60

anions

AUTHOR (S):

Dudis, Doug S.; Yeates, A. Todd; Blaudeau,

Jean-Philippe

CORPORATE SOURCE:

Polymer Group, Air Force Research Laboratory,

Wright-Patterson AFB, OH, 45433, USA

SOURCE:

Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003), COMP-024. American Chemical Society: Washington, D.

C.

CODEN: 69DSA4

DOCUMENT TYPE:

Conference; Meeting Abstract

LANGUAGE: English

L5 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Concepts and modeling approaches in conjugated materials.

AB Abstract text not available.

ACCESSION NUMBER:

2000:794559 HCAPLUS

TITLE:

Concepts and modeling approaches in conjugated

materials.

AUTHOR(S):

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Patterson AFB, OH, 45433, USA

SOURCE:

Abstracts of Papers, 220th ACS National Meeting, Washington, DC, United States, August 20-24, 2000

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PUBLISHER: DOCUMENT TYPE: American Chemical Society Journal; Meeting Abstract

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ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN L5

Polymer ionization energies and electron affinities: Polyacetylene. TI The calcn. of polymer electronic properties has presented tremendous AB challenges both theor. and computationally. The introduction of the singlet-triplet method as a viable approach to model polymer band-gaps provides tremendous insight into electronic processes in polymeric systems. In particular, the inclusion of electron-electron interactions, especially those terms considered in the self consistent field theories, are critical to obtaining qual. and quant. correct answers. Simple HOMO-LUMO approaches, which neglect half the problem, are not adequate. In the present work the electron affinity and ionization energy of ideal polyacetylene is determined from calcns. on a variety of oligomers. Post-Hartree Fock correlation is also considered in terms of bounding the

problem.

ACCESSION NUMBER:

1999:540719 HCAPLUS

TITLE:

Polymer ionization energies and electron affinities:

Polyacetylene.

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SOURCE:

Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26 (1999), COMP-009. American

Chemical Society: Washington, D. C.

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Conference; Meeting Abstract

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ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

Prediction of third-order NLO properties of organic molecules ΤI AB A review with >19 refs. on the calcn. of γ values and structural effects on γ .

ACCESSION NUMBER: 1994:629997 HCAPLUS

DOCUMENT NUMBER:

121:229997

TITLE:

Prediction of third-order NLO properties of organic

molecules

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Advanced Materials (Weinheim, Germany) (1994), 6(3),

248-51

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